

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121323\
 Data File : VN080458.D
 Acq On : 13 Dec 2023 13:43
 Operator : JC\MD
 Sample : 05688-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 14 04:06:12 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 13 01:57:14 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	187700	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	344607	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	358667	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	157964	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	150372	62.724	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	125.440%#
35) Dibromofluoromethane	8.165	113	128539	58.829	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	117.660%
50) Toluene-d8	10.565	98	452718	55.557	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	111.120%
62) 4-Bromofluorobenzene	12.847	95	183016	59.147	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	118.300%

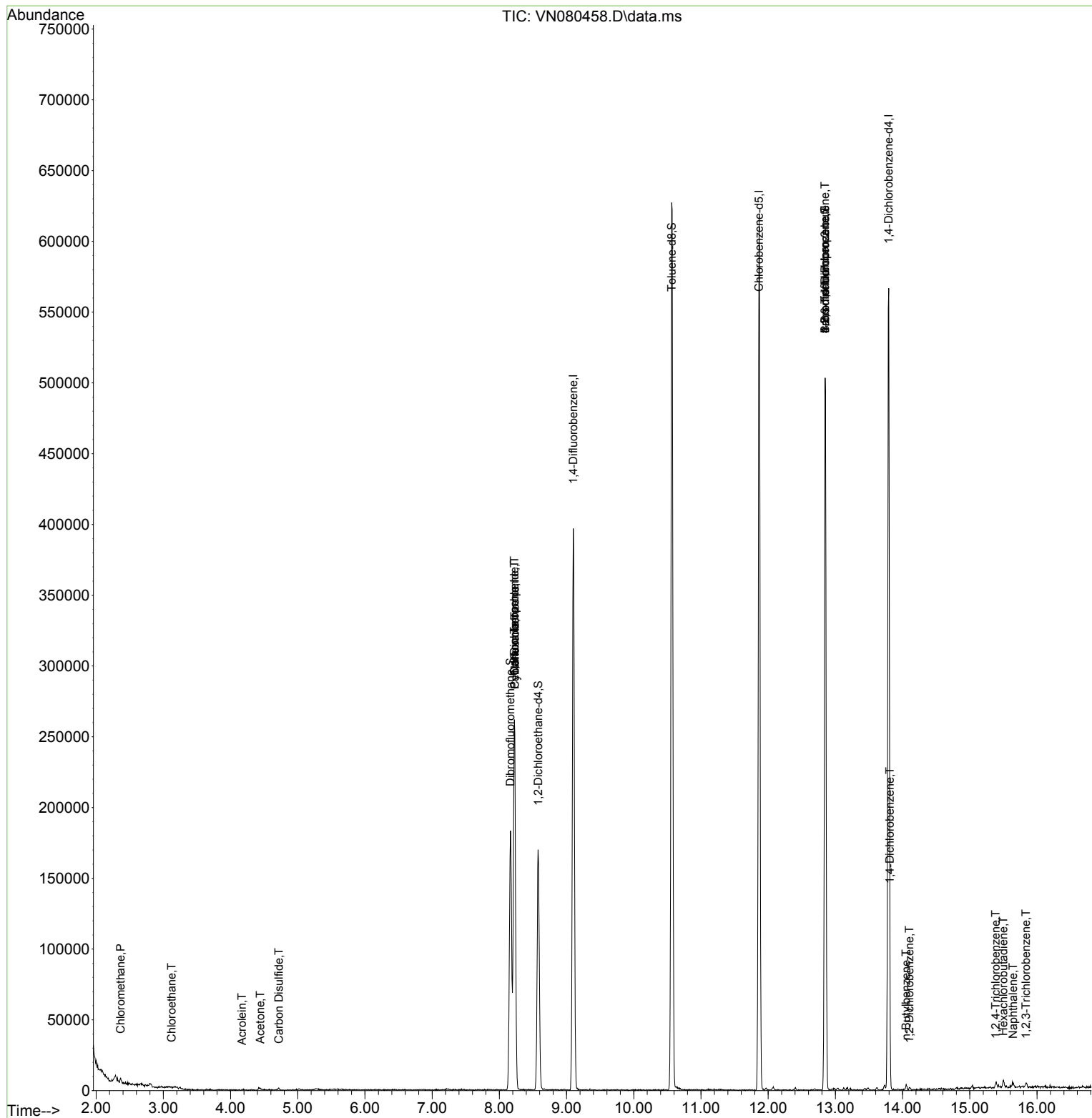
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	3533	1.014	ug/l #	66
6) Chloroethane	3.124	64	630	0.479	ug/l #	43
13) Acrolein	4.171	56	313	1.012	ug/l #	75
16) Acetone	4.442	43	2547	5.992	ug/l	98
17) Carbon Disulfide	4.718	76	1875	0.328	ug/l #	75
31) Cyclohexane	8.230	56	4133	1.268	ug/l #	54
36) 1,1-Dichloropropene	8.224	75	14730	4.123	ug/l #	49
38) Carbon Tetrachloride	8.224	117	20686	4.846	ug/l #	18
71) Bromoform	12.847	173	657	0.288	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	98403	31.226	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	98403	81.986	ug/l #	15
88) 1,4-Dichlorobenzene	13.812	146	1419	0.256	ug/l #	67
89) n-Butylbenzene	14.053	91	2403	0.278	ug/l	90
91) 1,2-Dichlorobenzene	14.100	146	1082	0.207	ug/l #	64
93) 1,2,4-Trichlorobenzene	15.388	180	1452	0.501	ug/l	93
94) Hexachlorobutadiene	15.500	225	1001	0.606	ug/l	85
95) Naphthalene	15.647	128	3365	0.382	ug/l #	75
96) 1,2,3-Trichlorobenzene	15.835	180	1662	0.594	ug/l #	62

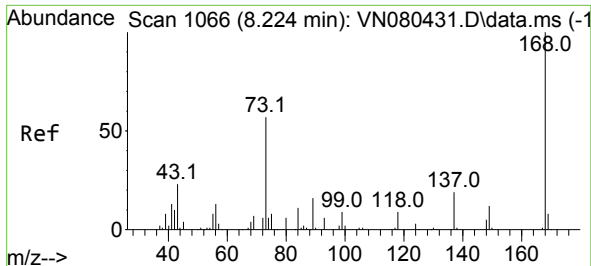
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
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QLast Update : Wed Dec 13 01:57:14 2023
Response via : Initial Calibration

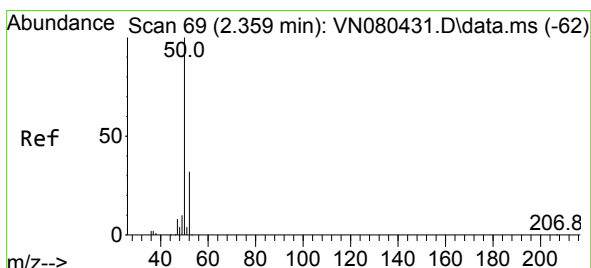
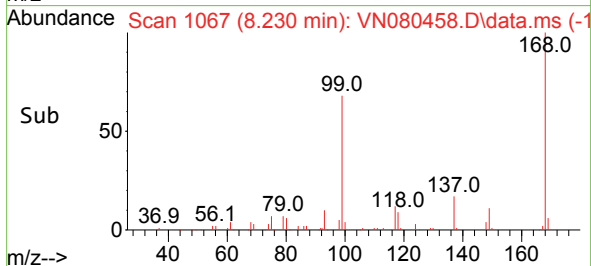
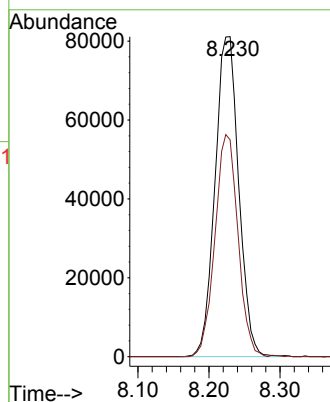
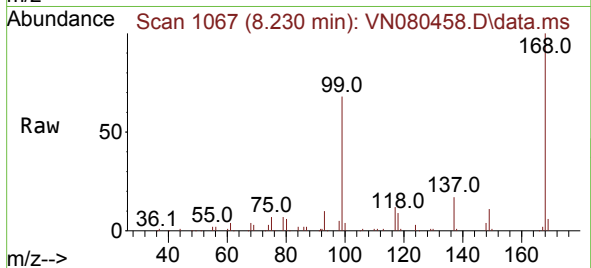




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN080458.D
Acq: 13 Dec 2023 13:43

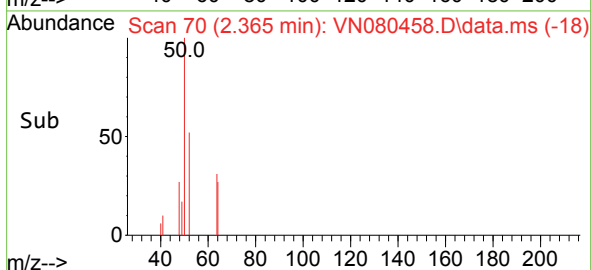
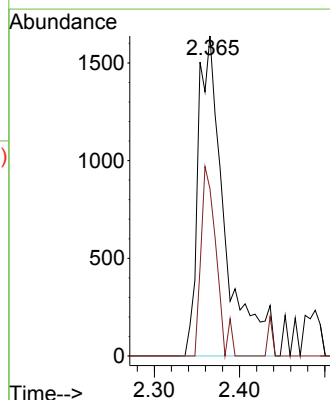
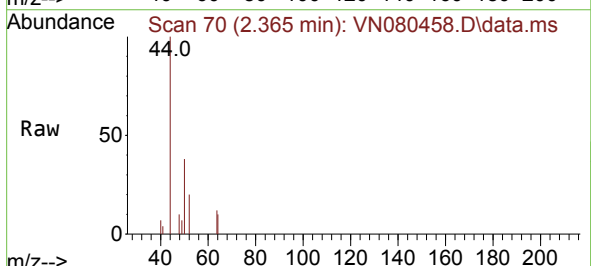
Instrument :
MSVOA_N
ClientSampleId :

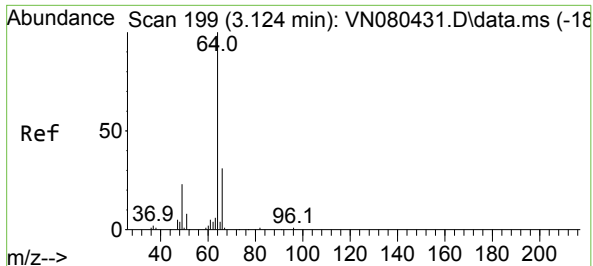
Tgt Ion:168 Resp: 187700
Ion Ratio Lower Upper
168 100
99 67.8 53.0 79.6



#3
Chloromethane
Concen: 1.014 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN080458.D
Acq: 13 Dec 2023 13:43

Tgt Ion: 50 Resp: 3533
Ion Ratio Lower Upper
50 100
52 52.3 26.5 39.7#

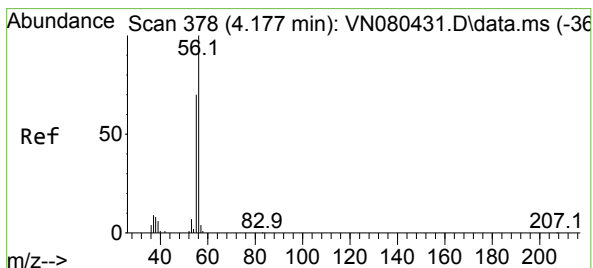
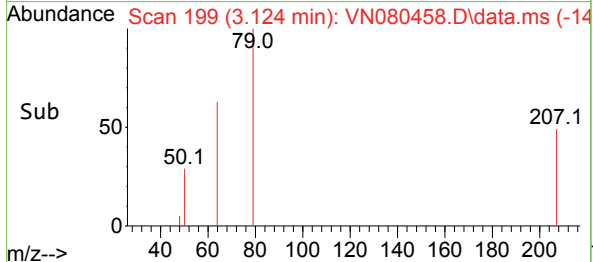
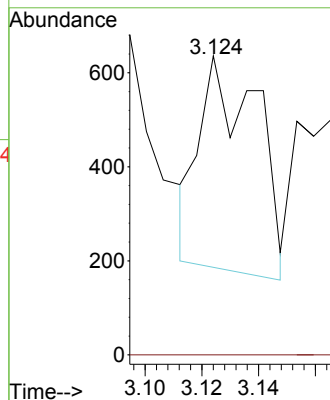
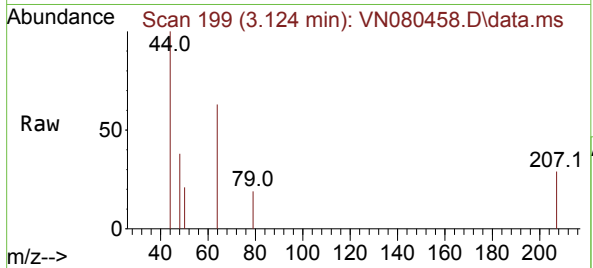




#6
Chloroethane
Concen: 0.479 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN080458.D
Acq: 13 Dec 2023 13:43

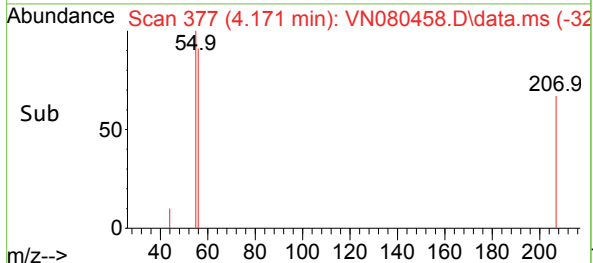
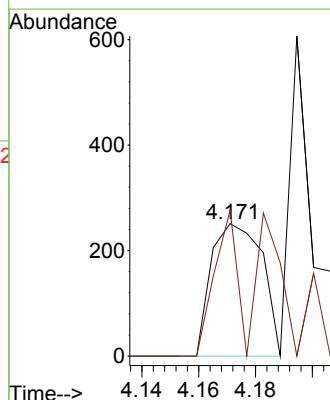
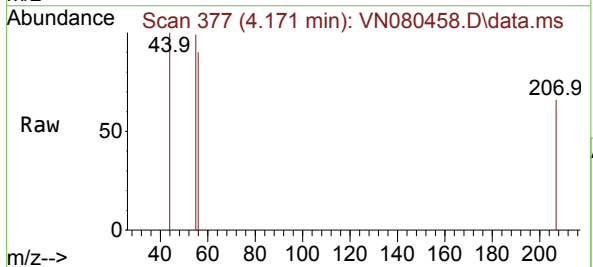
Instrument :
MSVOA_N
ClientSampleId :

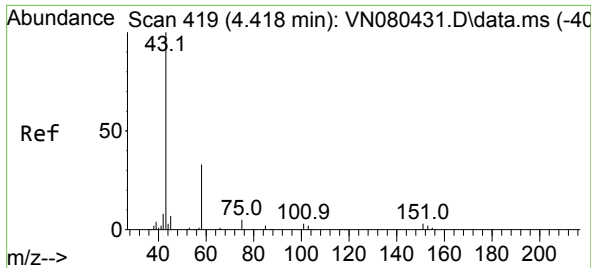
Tgt Ion: 64 Resp: 630
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#13
Acrolein
Concen: 1.012 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN080458.D
Acq: 13 Dec 2023 13:43

Tgt Ion: 56 Resp: 313
Ion Ratio Lower Upper
56 100
55 48.2 54.5 81.7#

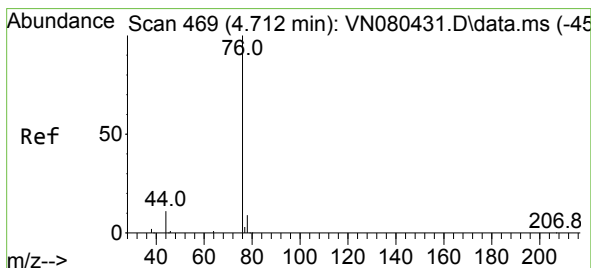
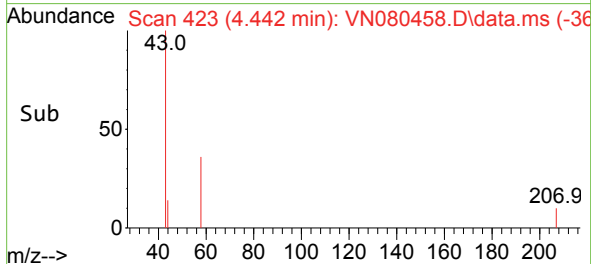
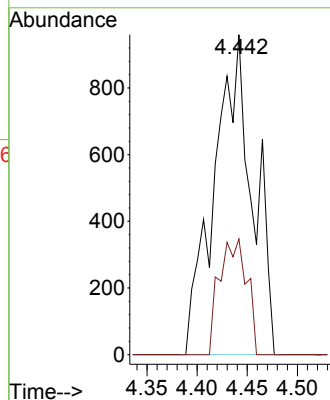
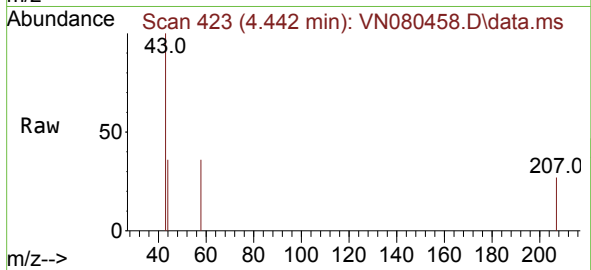




#16
Acetone
Concen: 5.992 ug/l
RT: 4.442 min Scan# 419
Delta R.T. 0.024 min
Lab File: VN080458.D
Acq: 13 Dec 2023 13:43

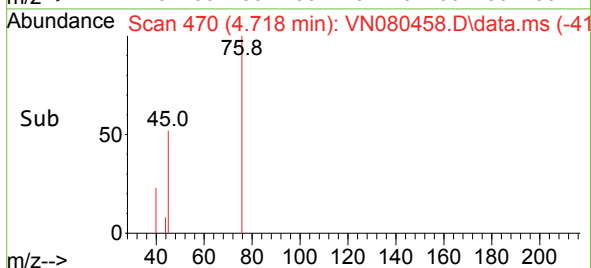
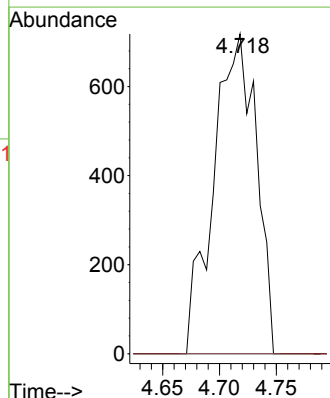
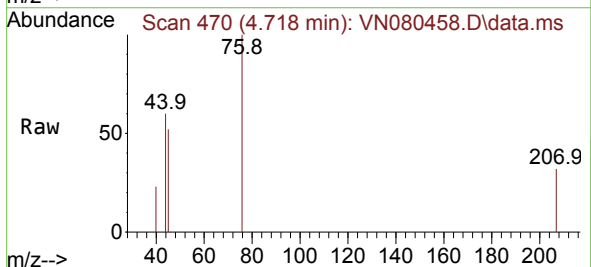
Instrument :
MSVOA_N
ClientSampleId :

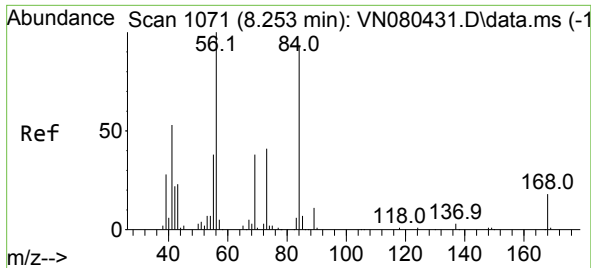
Tgt Ion: 43 Resp: 2547
Ion Ratio Lower Upper
43 100
58 36.1 28.0 42.0



#17
Carbon Disulfide
Concen: 0.328 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.006 min
Lab File: VN080458.D
Acq: 13 Dec 2023 13:43

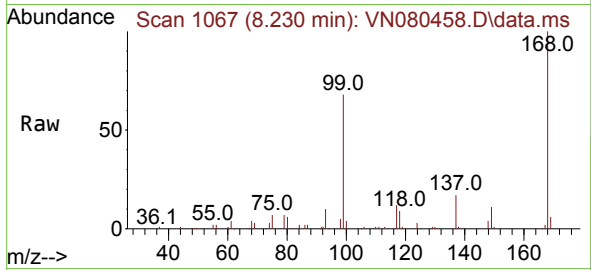
Tgt Ion: 76 Resp: 1875
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



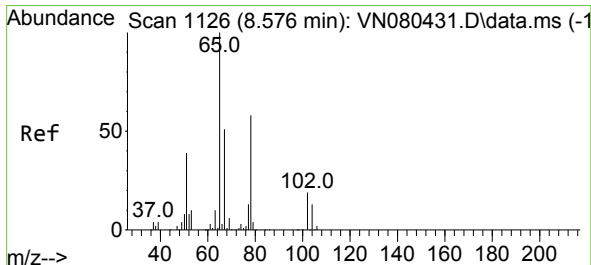
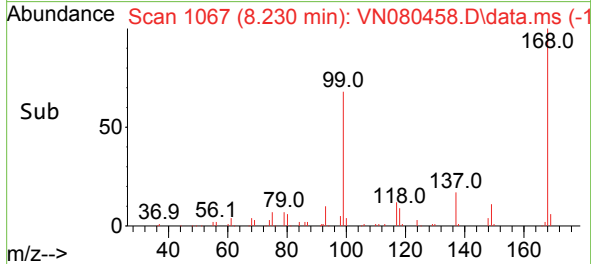
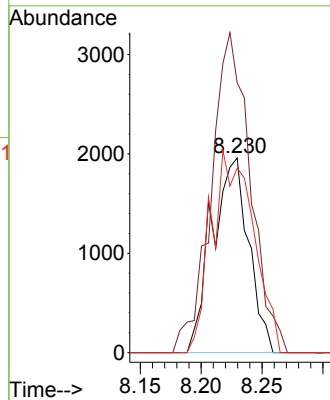


#31
Cyclohexane
Concen: 1.268 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.023 min
Lab File: VN080458.D
Acq: 13 Dec 2023 13:43

Instrument :
MSVOA_N
ClientSampleId :

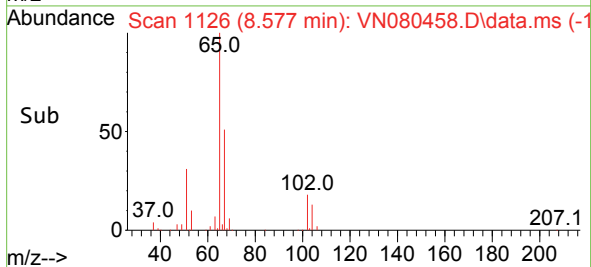
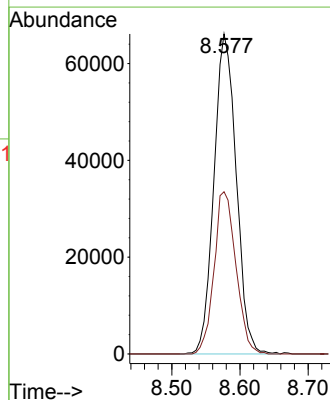
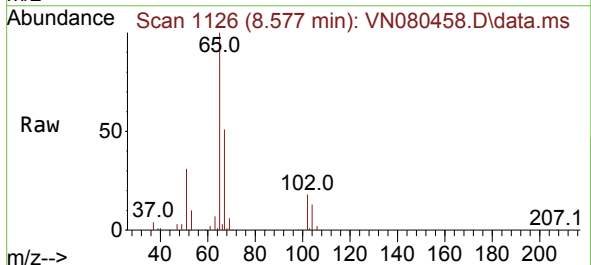


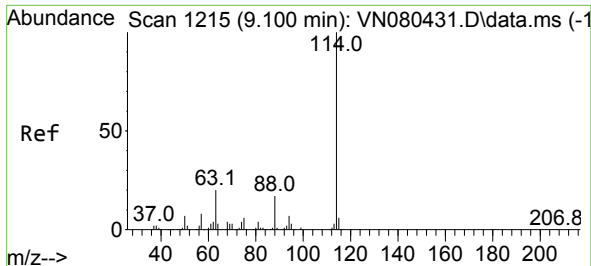
Tgt Ion: 56 Resp: 4133
Ion Ratio Lower Upper
56 100
69 127.4 26.8 40.2#
84 94.8 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 62.724 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN080458.D
Acq: 13 Dec 2023 13:43

Tgt Ion: 65 Resp: 150372
Ion Ratio Lower Upper
65 100
67 49.8 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 114

Delta R.T. 0.000 min

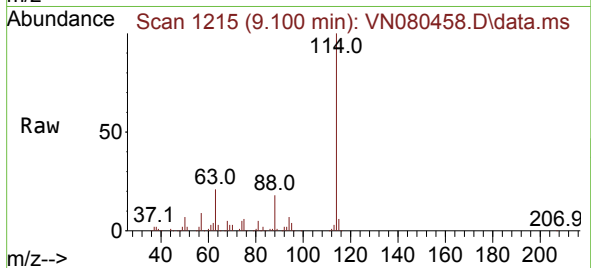
Lab File: VN080458.D

Acq: 13 Dec 2023 13:43

Instrument :

MSVOA_N

ClientSampleId :



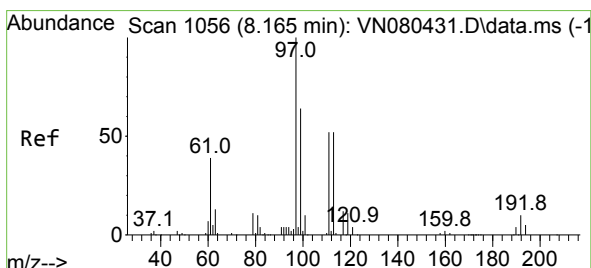
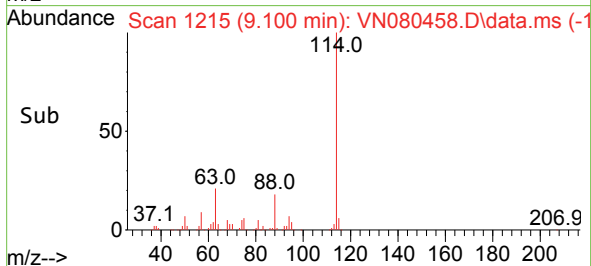
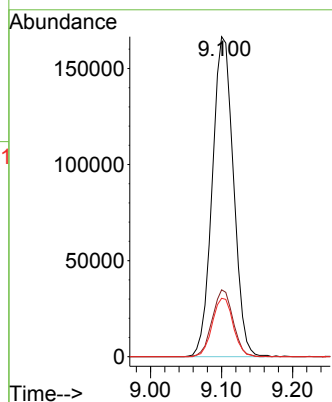
Tgt Ion:114 Resp: 344607

Ion Ratio Lower Upper

114 100

63 20.9 0.0 36.4

88 18.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 58.829 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN080458.D

Acq: 13 Dec 2023 13:43

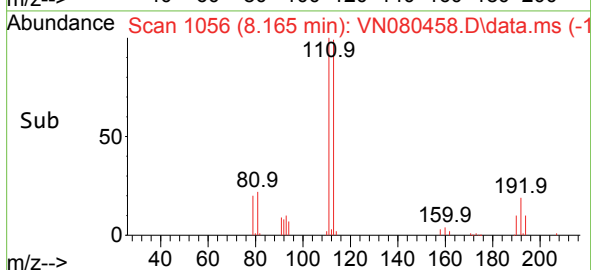
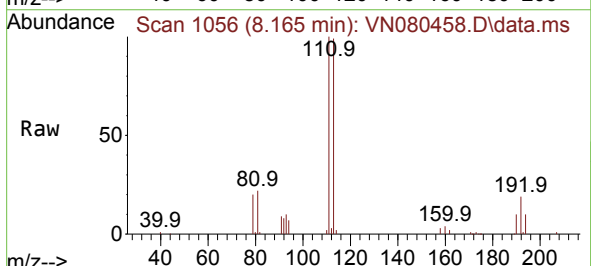
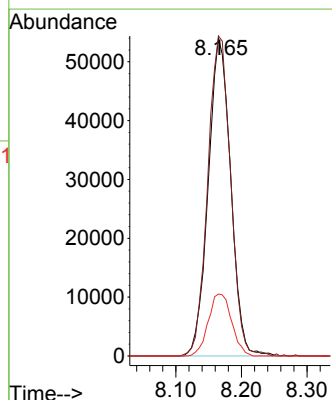
Tgt Ion:113 Resp: 128539

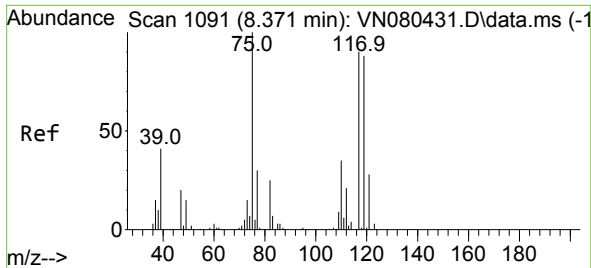
Ion Ratio Lower Upper

113 100

111 102.1 82.6 123.8

192 20.2 12.7 19.1#

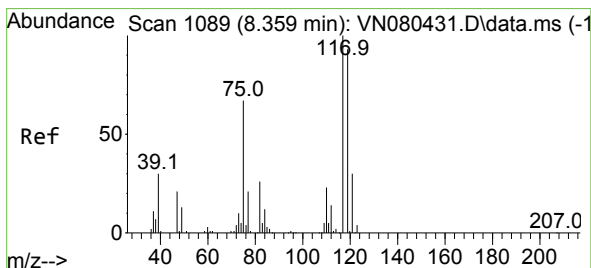
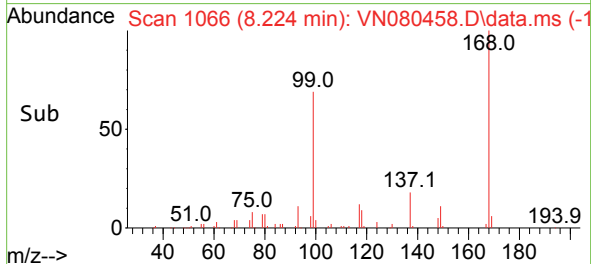
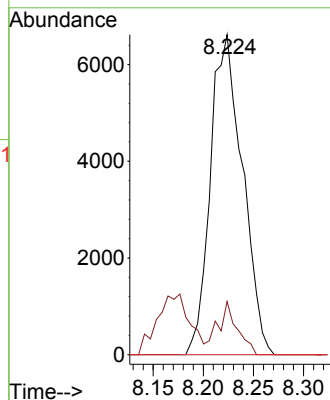
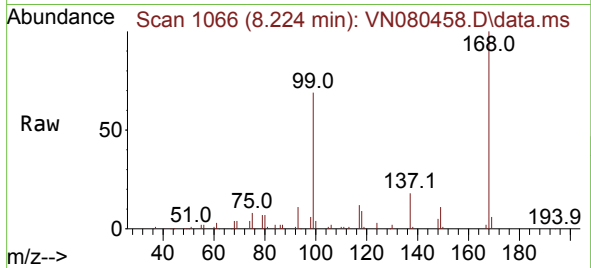




#36
1,1-Dichloropropene
Concen: 4.123 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN080458.D
Acq: 13 Dec 2023 13:43

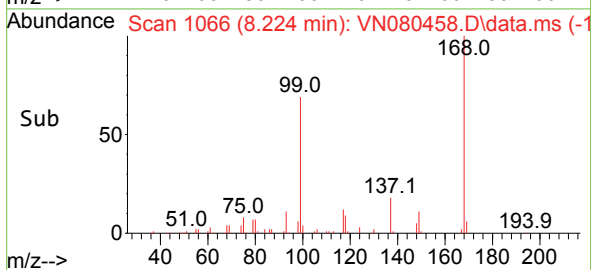
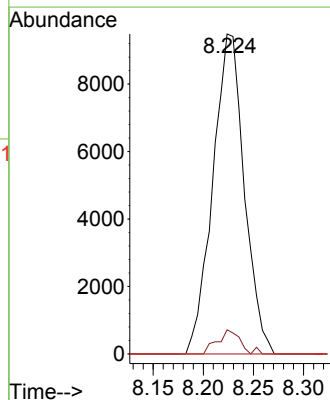
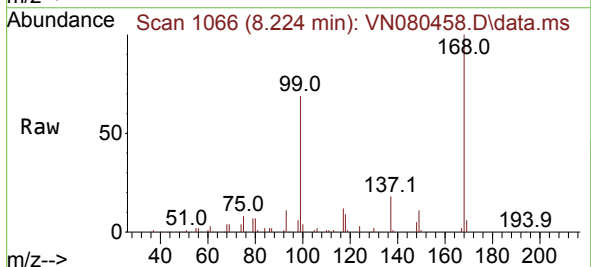
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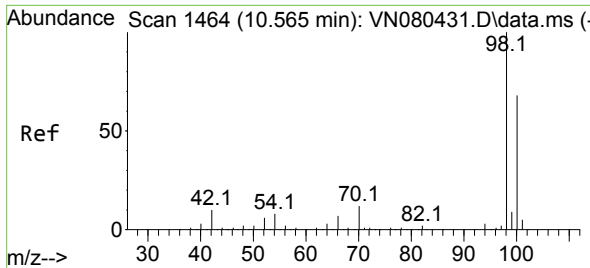
Tgt Ion: 75 Resp: 14730
Ion Ratio Lower Upper
75 100
110 10.1 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 4.846 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN080458.D
Acq: 13 Dec 2023 13:43

Tgt Ion:117 Resp: 20686
Ion Ratio Lower Upper
117 100
119 7.6 77.3 115.9#
121 0.0 23.3 34.9#

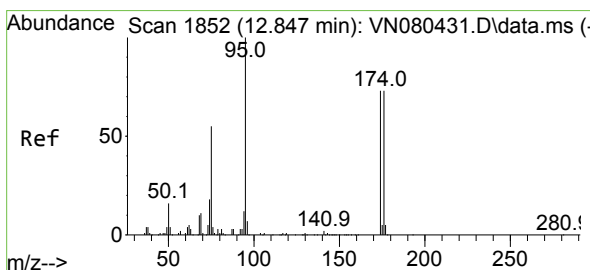
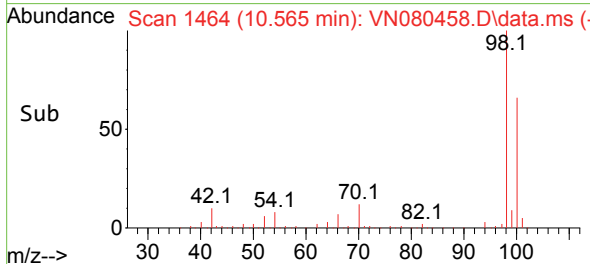
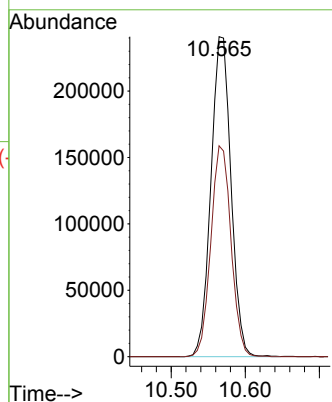
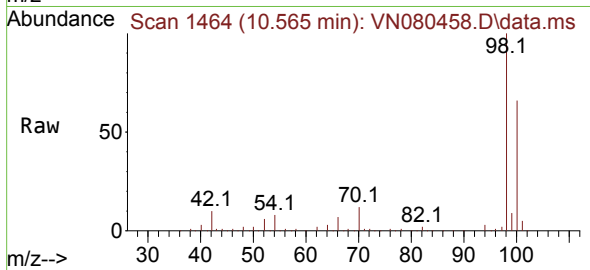




#50
Toluene-d8
Concen: 55.557 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN080458.D
Acq: 13 Dec 2023 13:43

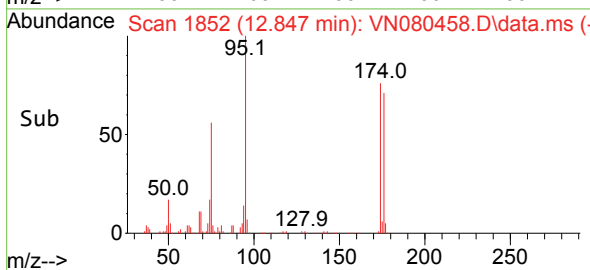
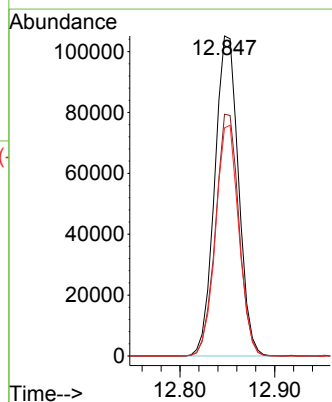
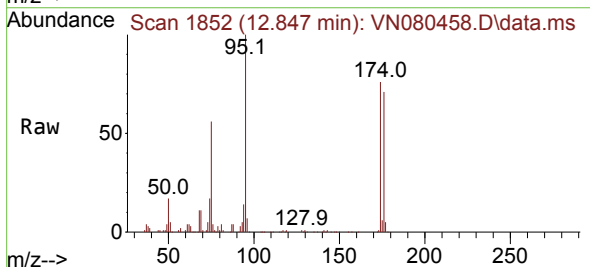
Instrument :
MSVOA_N
ClientSampleId :

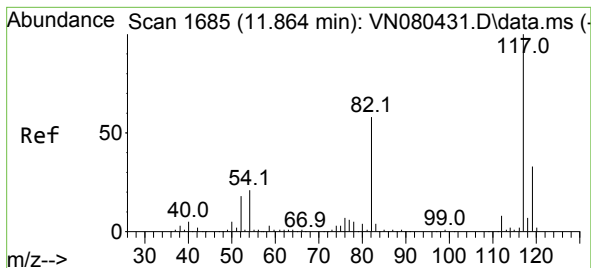
Tgt Ion: 98 Resp: 452718
Ion Ratio Lower Upper
98 100
100 66.2 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 59.147 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN080458.D
Acq: 13 Dec 2023 13:43

Tgt Ion: 95 Resp: 183016
Ion Ratio Lower Upper
95 100
174 74.3 0.0 143.8
176 70.7 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN080458.D

Acq: 13 Dec 2023 13:43

Instrument :

MSVOA_N

ClientSampleId :

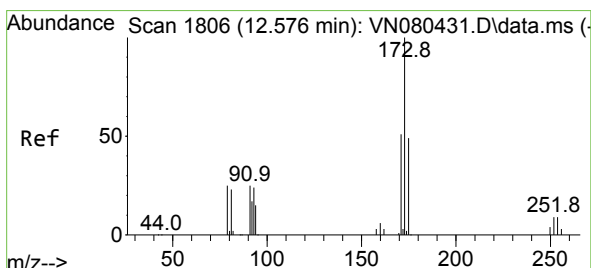
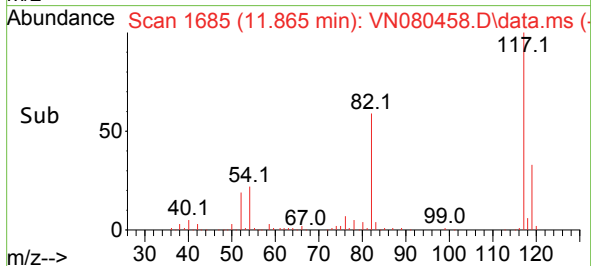
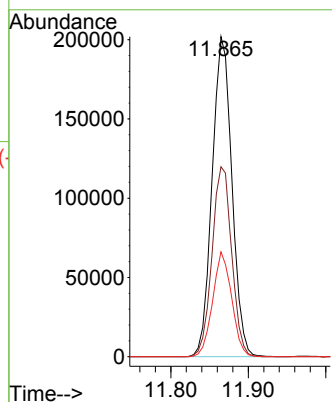
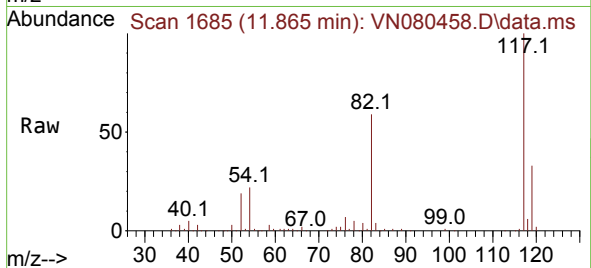
Tgt Ion:117 Resp: 358667

Ion Ratio Lower Upper

117 100

82 59.3 44.0 66.0

119 32.7 25.6 38.4



#71

Bromoform

Concen: 0.288 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.271 min

Lab File: VN080458.D

Acq: 13 Dec 2023 13:43

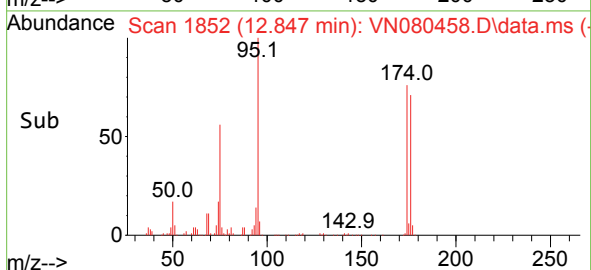
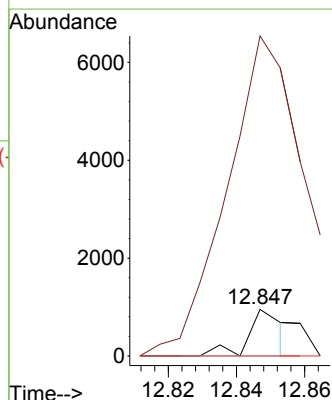
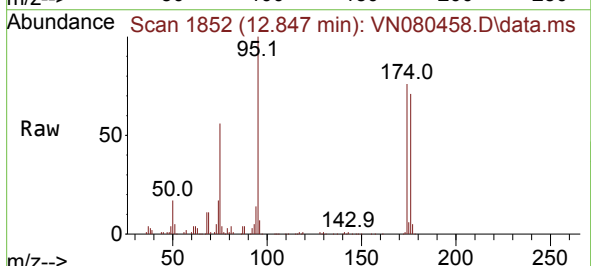
Tgt Ion:173 Resp: 657

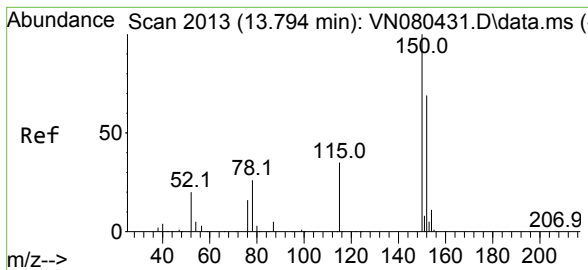
Ion Ratio Lower Upper

173 100

175 1173.7 24.3 73.0#

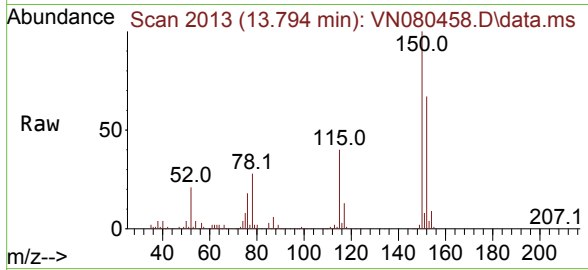
254 0.0 0.0 0.0



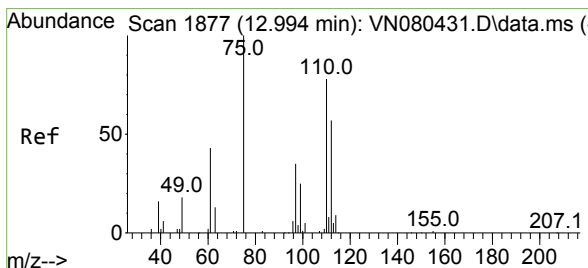
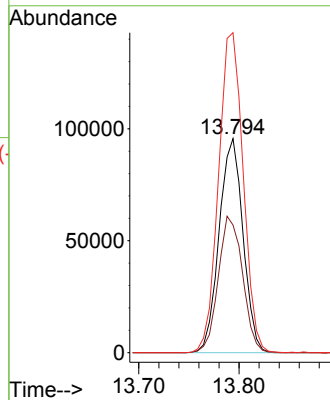
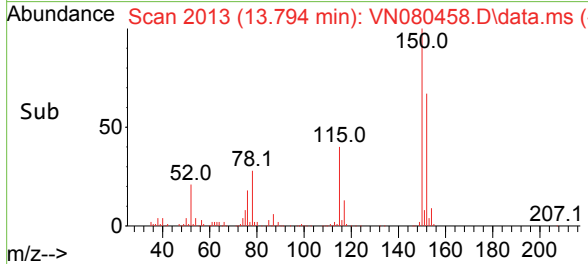


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN080458.D
 Acq: 13 Dec 2023 13:43

Instrument :
 MSVOA_N
 ClientSampleId :

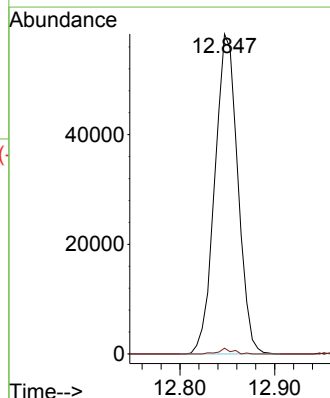
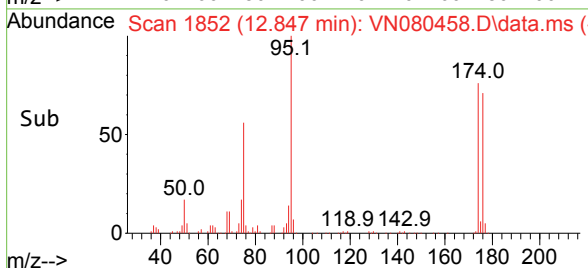
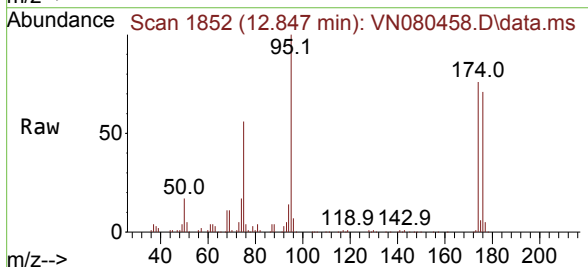


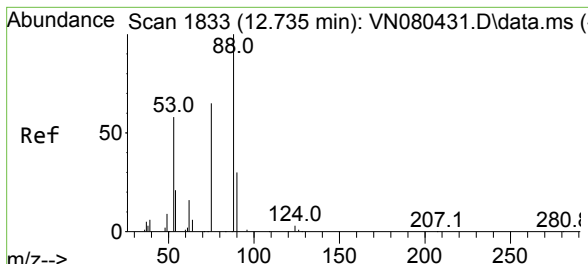
Tgt Ion:152 Resp: 157964
 Ion Ratio Lower Upper
 152 100
 115 64.9 32.3 96.8
 150 154.2 0.0 355.8



#76
 1,2,3-Trichloropropane
 Concen: 31.226 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN080458.D
 Acq: 13 Dec 2023 13:43

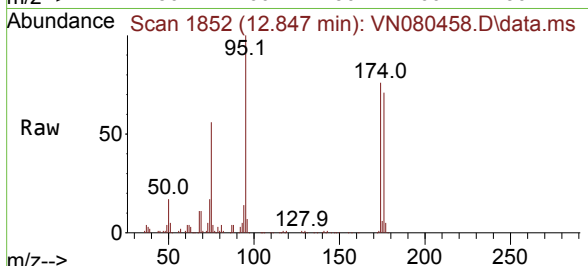
Tgt Ion: 75 Resp: 98403
 Ion Ratio Lower Upper
 75 100
 77 1.1 84.5 253.5#



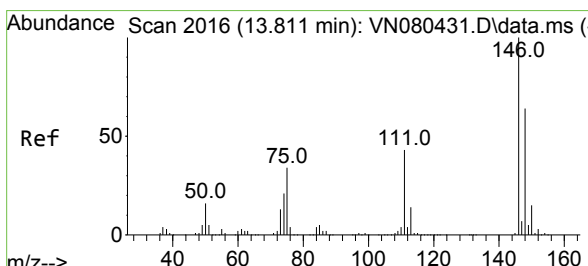
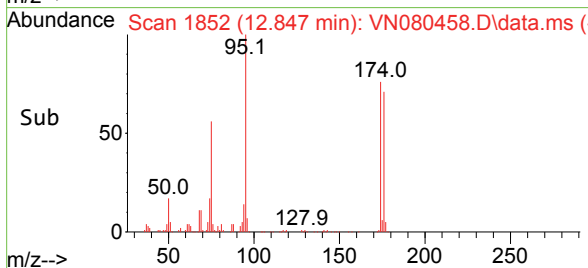
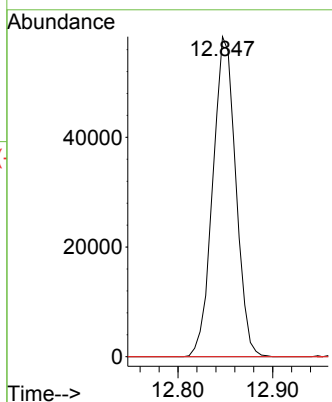


#81
 trans-1,4-Dichloro-2-butene
 Concen: 81.986 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.112 min
 Lab File: VN080458.D
 Acq: 13 Dec 2023 13:43

Instrument :
 MSVOA_N
 ClientSampleId :

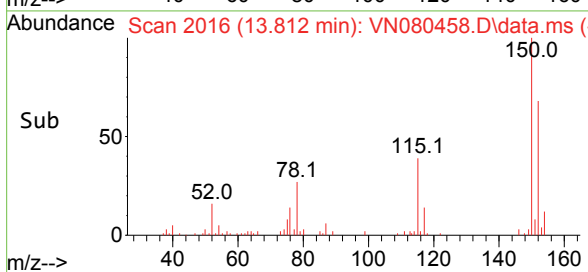
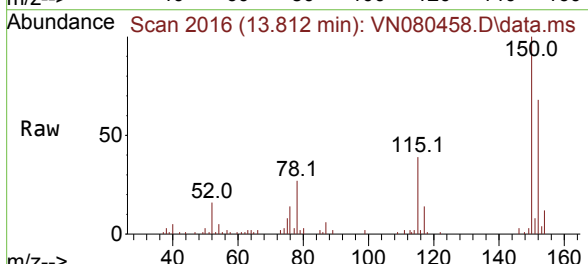
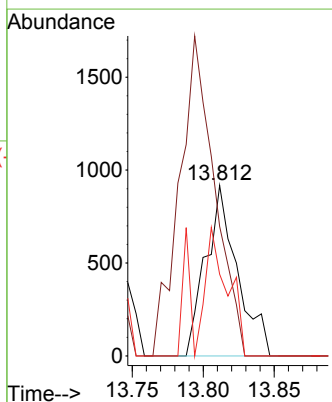


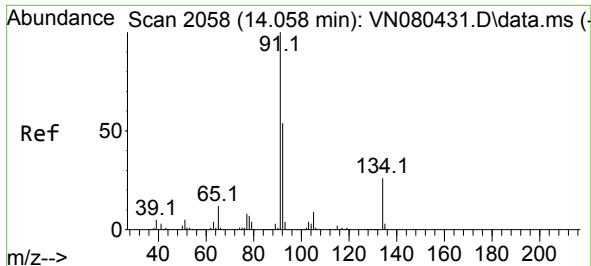
Tgt Ion: 75 Resp: 98403
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#



#88
 1,4-Dichlorobenzene
 Concen: 0.256 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. 0.000 min
 Lab File: VN080458.D
 Acq: 13 Dec 2023 13:43

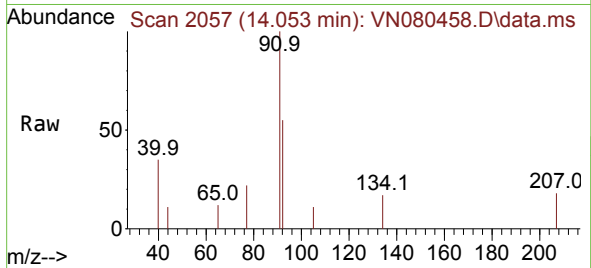
Tgt Ion: 146 Resp: 1419
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.6 61.8#
 148 53.6 31.6 94.8



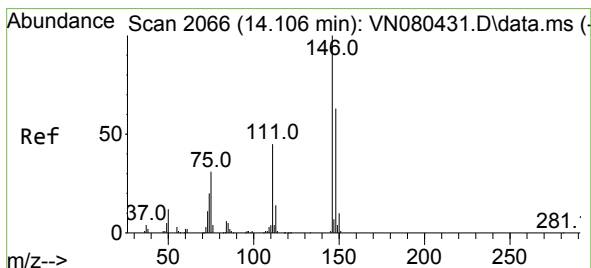
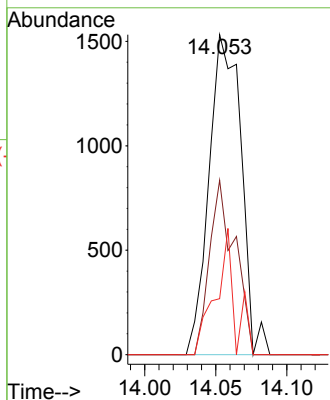
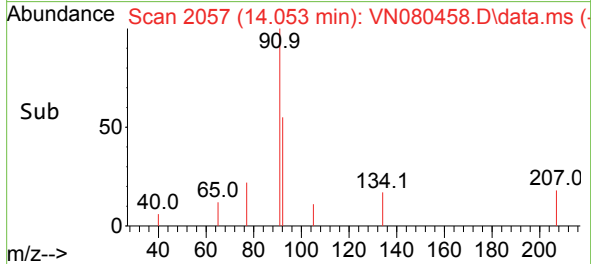


#89
n-Butylbenzene
Concen: 0.278 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.006 min
Lab File: VN080458.D
Acq: 13 Dec 2023 13:43

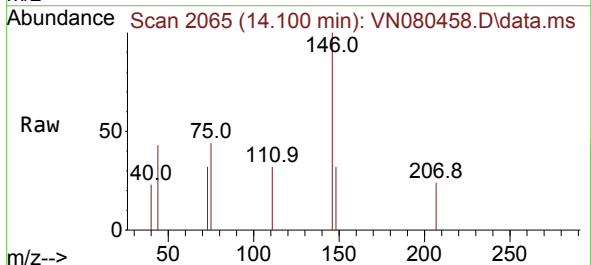
Instrument :
MSVOA_N
ClientSampleId :



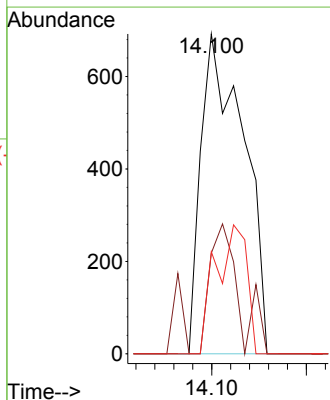
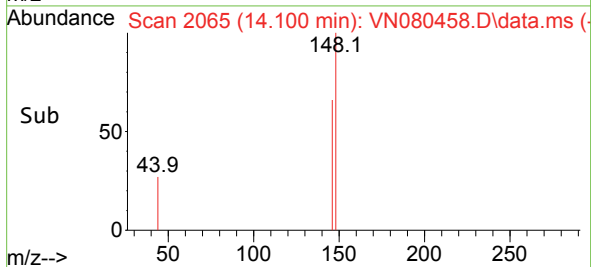
Tgt Ion: 91 Resp: 2403
Ion Ratio Lower Upper
91 100
92 43.2 26.4 79.0
134 23.7 12.6 37.6

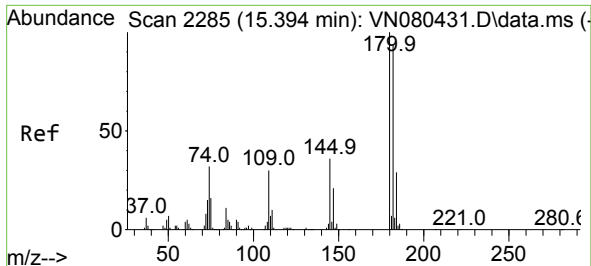


#91
1,2-Dichlorobenzene
Concen: 0.207 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.006 min
Lab File: VN080458.D
Acq: 13 Dec 2023 13:43



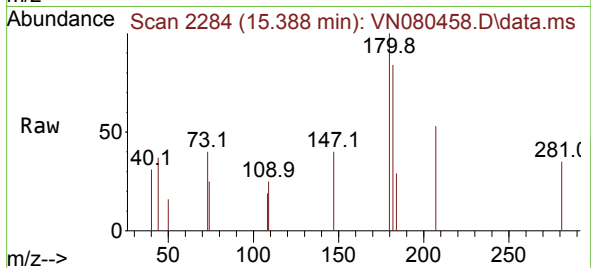
Tgt Ion: 146 Resp: 1082
Ion Ratio Lower Upper
146 100
111 27.6 22.0 66.0
148 29.3 31.8 95.3#



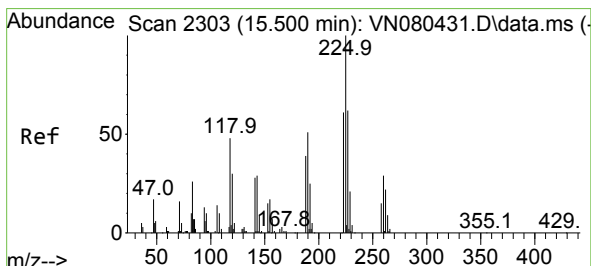
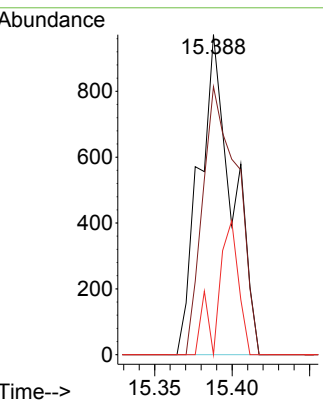
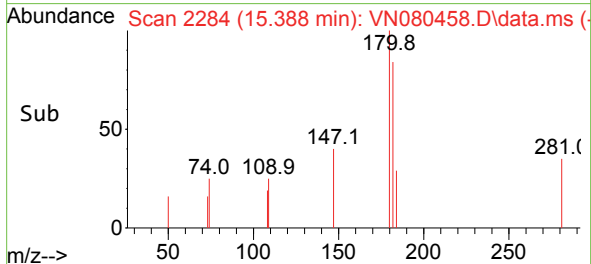


#93
1,2,4-Trichlorobenzene
Concen: 0.501 ug/l
RT: 15.388 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN080458.D
Acq: 13 Dec 2023 13:43

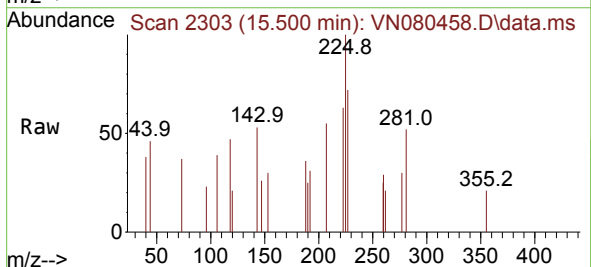
Instrument :
MSVOA_N
ClientSampleId :



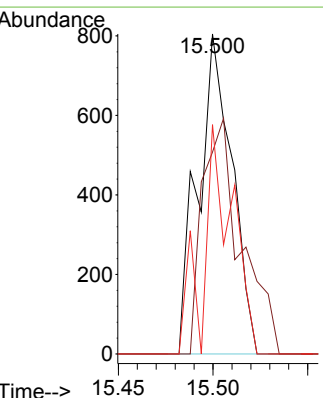
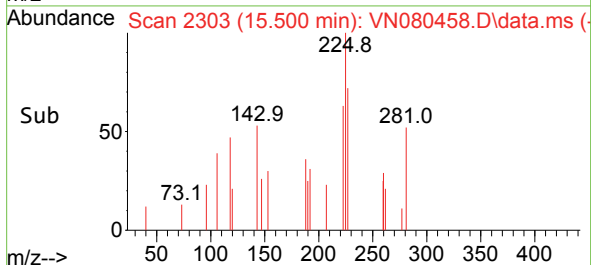
Tgt Ion:180 Resp: 1452
Ion Ratio Lower Upper
180 100
182 87.5 46.1 138.2
145 26.3 16.6 49.8

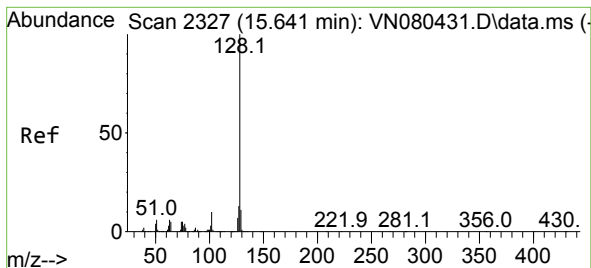


#94
Hexachlorobutadiene
Concen: 0.606 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN080458.D
Acq: 13 Dec 2023 13:43



Tgt Ion:225 Resp: 1001
Ion Ratio Lower Upper
225 100
223 83.7 31.3 93.8
227 61.8 31.9 95.9





#95

Naphthalene

Concen: 0.382 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN080458.D

Acq: 13 Dec 2023 13:43

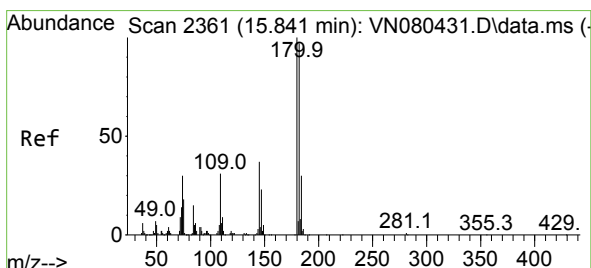
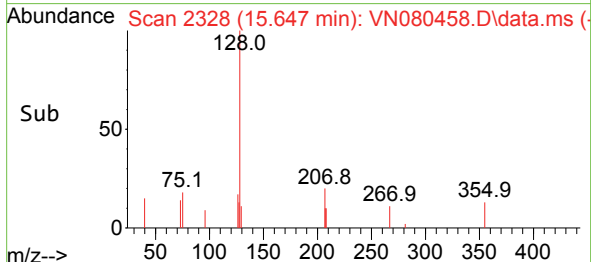
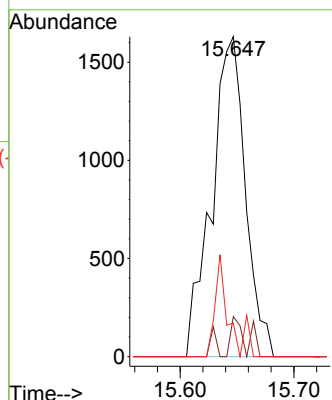
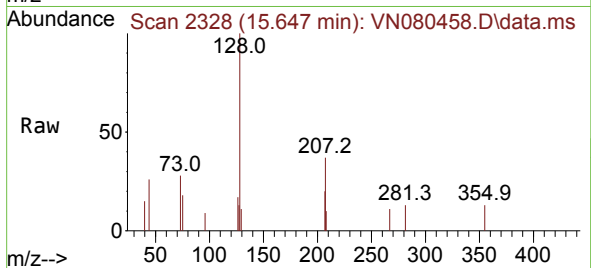
Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:128 Resp: 3365

Ion	Ratio	Lower	Upper
128	100		
127	3.8	10.0	15.0#
129	0.0	8.7	13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.594 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.006 min

Lab File: VN080458.D

Acq: 13 Dec 2023 13:43

Tgt Ion:180 Resp: 1662

Ion	Ratio	Lower	Upper
180	100		
182	59.2	46.2	138.6
145	8.0	17.5	52.6#

